

Juneau County Groundwater Screening Investigation

On April 30 through May 3, 2018, EPA sampled groundwater west of Petenwell Lake in Northeast Juneau County, Wisconsin, after receiving complaints of private drinking water well contamination. EPA collected groundwater samples at 41 temporary boring locations. The samples were analyzed for nutrients, anions, total metals, and nitrate isotopes. EPA employed the use of temporary or “point-in-time” groundwater sampling techniques with the goal of characterizing pollutant plume boundaries, hot spots, or pathways. This information can be used to identify potential sources of groundwater pollution, potential impacts to private wells, and determine the optimal placement of new conventional monitoring wells for long-term trend monitoring.

EPA will analyze the results and coordinate further with Wisconsin Department of Natural Resources to determine appropriate next steps.

EPA Temporary Boring Groundwater Sampling Data

- EPA Laboratory and Field Screening Data (Zip file) (21 files, 5.2 MB)
[File name: EPA_Juneau_Data.zip]

EPA Data Summary Figures

- EPA Boring Groundwater Sample Locations (PDF) (581 KB)
[File name: EPA Boring_Sample_Locations.pdf]
- EPA Hach Field Test Strip Nitrate Results – shallow (PDF) (579 KB)
[File name: EPA Nitrate_Fieldtest_shallow.pdf]
- EPA Hach Field Test Strip Nitrate Results – deep (PDF) (579 KB)
[File name: EPA Nitrate_Fieldtest_deep.pdf]
- EPA UNL Nitrate+Nitrite-N Results – shallow (PDF) (579 KB)
[File name: EPA UNL Nitrate+Nitrite-N_shallow.pdf] (579 KB)
- EPA UNL Nitrate+Nitrite-N Results – deep (PDF) (579 KB)
[File name: EPA UNL Nitrate+Nitrite-N_deep.pdf] (579 KB)